

Peter Tong  
1807 Limetree Lane  
Mountain View, CA 94040

PATENT APPLICATION  
Attorney Docket N . 150C3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Chi Fai Ho, Peter P. Tong  
Serial No.: Examiner:  
Filing Date: Group Art Unit:  
Title: Computer-Aided Group-Learning Methods and Systems

THE COMMISSIONER FOR PATENT  
US PATENTS & TRADEMARK OFFICE  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- under 37 CFR 1.97 (b), or  
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)  
 under 37 CFR 1.97 (c), together with either a:  
 Certification under 37 CFR 1.97 (e), or  
 a \$200.00 fee under 37 CFR 1.17 (p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)  
 under 37 CFR 1.97 (d), together with a:  
 Certification under 37 CFR 1.97 (e), and  
 a petition under 37 CFR 1.97 (d) (2) (ii), and  
 a \$130.00 petition fee set forth in 37 CFR 1.17 (i) (1).

(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

- Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As indicated in 37 CFR 1.98(d), copies of the patents, publications or other information are provided herewith only if they were not previously cited by and submitted to the Office in any prior application(s).  
 A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

By 

**Peter P. Tong**

Attorney/Agent for Applicant(s)

Reg. No. 35757

Date: November 22, 2003

Telephone No.: (650) 625-8192

PATENT APPLICATION

FORM PTO-1449		ATTY. DOCKET NO. <b>150C3</b>	SERIAL NO.
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)		APPLICANT <b>Chi Fai Ho, Peter P. Tong</b>	
		FILING DATE	GROUP

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	5,035,625	7-1991	Monson et al		
	5,286,036	2-1994	Barabash		
	5,597,312	1-1997	Bloom et al		
	4,611,996	9-1986	Stoner		
	5,727,950	3-1998	Cook et al.		
	5,295,836	3-1994	Ryu et al		
	5,385,475	1-1995	Sudman et al		
	5,395,243	3-1995	Lubin et al		
	5,823,788	10-1998	Lemelson et al.		
	5,506,984	4-1996	Miller		
	5,618,182	4-1997	Thomas		
	5,692,906	12-1997	Corder		
	5,387,104	2-1995	Corder		
	5,302,132	4-1994	Corder		
	5,458,494	10-1995	Krohn et al.		
	5,002,491	3-1991	Abrahamson et al.		
	5,592,375	Jan. 7, 1997	Bardwell et al.		
	5,978,768	Nov. 2, 1999	McGovern et al.		
	5,999,908	Dec 7, 1999	Daniel H. Abelow		
	5,099,431	March 1992	Natarajan, Bharath		
	2001/0037376	November 1, 2001	Ullman et al.		

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	WO 98/30965	7-1998	Havens et al		

### OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	Success Maker Courseware brochure, published by Computer Curriculum Corporation	12/1994
	Active Mind Series from World Wide Web, URL = <a href="http://www.broderbund.com/studio/ams.html">http://www.broderbund.com/studio/ams.html</a>	1996
	Logical Journal of the Zoombinis from World Wide Web, URL = <a href="http://www.broderbund.com/studio/atoz/zoombini.html">http://www.broderbund.com/studio/atoz/zoombini.html</a>	1996
	Selecting Software by PC Novice Series, Vol.3, Issue 12, Pages 51, 64, and 89-92.	1995
	Computerized Adaptive Testing, October 24, 1994, from World Wide Web, URL = <a href="Gopher://Gopher.ETS.org">Gopher://Gopher.ETS.org</a>	
	Innovation and Technologies, October 21, 1994, from World Wide Web, URL = <a href="Gopher://Gopher.ETS.org">Gopher://Gopher.ETS.org</a>	
	Interactive Mathematic Instructor's Guide by Academic Systems, pages 86 and 114.	8/1995
	High School Learning and Resource Library by ProOne, photocopy of the box and screen-dump to get 5 pages	1995
	The home page and a description of online training from a company named, Peritas. URL = <a href="http://www.peritas.com/noframes/home.html">www.peritas.com/noframes/home.html</a> , and <a href="http://www.peritas.com/noframes/company/training/online/home.html">www.peritas.com/noframes/company/training/online/home.html</a>	1998
	A description on a product, Symposium, from a company named, Centra. URL = <a href="http://www.centra.com/product/index.html">www.centra.com/product/index.html</a> , and <a href="http://www.centra.com/product/sysreq.html">www.centra.com/product/sysreq.html</a>	1997
	Tutored Video Instruction: A Distance Education Methodology that Improves Training Results URL = <a href="http://www.cs.cmu.edu/afs/cs/user/jhm/15-601/tvi.html">www.cs.cmu.edu/afs/cs/user/jhm/15-601/tvi.html</a>	6/1996
	"Computer based training – a report of a NATO study visit to America. A.P. Report 91" by Patrick, pp. 1-29.	1/1980
	"Improving the Selection, classification, and utilization of army enlisted personnel: Annual Report synopsis, 1984 Fiscal Year" Human Resources Research Organization, Alexandria, Va., pp. v, vii-x, and 1-40.	7/1985
	"Mendel: An Intelligent Computer Tutoring System For Genetics Problem-Solving, Conjecturing, and Understanding" by Streibel et al., Machine-Mediated Learning, Vol. 2, No. 1 & 2, pp. 129-159.	1987
	"Getting Serious about SAT software" by Harvey et al., National Council of Teachers of Mathematics, pp. 440-454.	9/1987
	"Control for Intelligent Tutoring Systems: A Comparison of Blackboard Architectures and Discourse Management Networks" by W. Murray. Machine-Mediated Learning, Vol. 3, No. 1, pp. 107-124.	1989
	"Taking a standardized test? Here's some help." by M. Bunescu, 62 Electronic Learning, pp. 62-64.	9/1989
	"ECAL: Bridging the gap between CAL and Intelligent tutoring systems" by Elsom-Cook et al., Computers & Education, Vol. 15, Number 1-3, pp. 69-81.	1990
	"A blackboard-based dynamic instructional planner" by W. Murray, Artificial Intelligence Center, FMC Corp., ONR-6376, pp. 1-59, 72-83, 97-103, with 9 introductory pages.	2/90
	Test-taking skills. School library journal, pp. 61.	5/90
	"An architecture and methodology for creating a domain-independent, plan-based intelligent tutoring system" by J. Vassileva., Educational & Training Technology International, Vol 27, #4, pp. 386-397.	11/90
	"Software" by Weiser et al., Media & methods, pp. 63-64.	11-12/90
	"Toward the design of an intelligent courseware production system using software engineering and instructional design principles." By Chen et al. Educational Technology Systems, pp. 41-52.	12/90
	"Advanced technology training program for the apparel industry. Final report." Office of vocational and adult education (ED), Washington, DC, pp. 1-9.	1991
	"An analysis of computer-assisted instruction on scholastic aptitude test performance of rural high school students." By Fine et al. Education, vol. 111, number 3, p. 400-403	Spring/91

	"Building integrated skills—a model for action." BC Construction industry skills improvement council, 404-737 Camarvon Street, New Westminster, British Columbia V3M 5X1, pp. 1-6	8/91
	"Computer software." By Herne et al. Journal of Reading 3517, pp. 604	4/92
	"Designing a Tool Supporting the Development of ITS in Different Domains: The Docet Experience." By Bonarini et al., Interactive Learning Environments Vol 3, No. 2, pp. 131-149.	1993
	"Databases on vocational qualifications and courses accredited" European centre for the development of vocational training, Berlin (Germany), pp. 1-11.	2/93
	"An approach to developing intelligent tutors in Mathematics" by H. Nwana, Computers & Education, Vol. 20, No. 1, pp. 27-43.	3/93
	"CBT Wintracs," CBT Systems Ltd., pp. 3-47.	1994
	"An historical perspective and a model for evaluation of intelligent tutoring systems." By Seidel et al. J. Educational Computing Research, Vol. 10(2), pp. 103-128	1994
	"A new direction for developmental education using technology." Annual convention of the American association of community colleges (74 <sup>th</sup> , Washington, DC, April 6-9, 1994) pp. 1-9	4/94
	"Mathematics study skills: A must for students with LD." By P. Nolting. Intervention in school and clinic, vol. 30, #1, pp. 53-59.	9/94
	"Keeping up with the SATs." By R. Schneider. Technology and learning, pp. 7-9.	9/94
	"Using computer technology to monitor student progress and remediate reading problems." By C. McCullough. School psychology review, vol. 24, No. 3, pp. 426-439	1995
	"Software and Courseware" The Technological Horizons in Education Journal Vol 22, No. 10, pg. 41.	5/95
	"Gearing up for the SAT." By R. Schneider. Technology Learning, pp. 9-11.	1/96
	"Basic Skills Program Helps Trainees Pass Vocational Tests" The Technological Horizons in Education Journal Vol 23, No. 8, pg. 66.	3/96
	"Foundations of Probability with applications," selected papers 1974-1975. pp. 149-188. By Suppes et al.	11/96
	"SAT preparation through technology." By Bean et al. Media & Methods, p. 73	11-12/96
	"Computers in school: A loser? Or a lost opportunity?" By Shao et al. Business Week, no. 3115, p. 108	7/17/89
	"Is it a 'miracle'? Computer teaches piano" Consumer reports, v. 56, no. 11, p. 718	11/91
	"Kids love to learn with these PC games" By Warner et al. Business week, no. 3265, p. 116	5/11/92
	"Software that's fun and educational – that's 'edutainment'" By C. Miller. American marketing association, Marketing News, p. 2	4/26/93
	"Test drive; comic relief helps navigate hallways of 'Inside the SAT'" By E. Graner. St Louis Post-Dispatch, Everyday magazine, p. 1F	3/8/95
	"SAT fundamentals" By D. Oldenburg. The Washington Post, p. D05, Final Edition	4/7/95
	"SAT Software: Does it work?" By R. Calem. The New York Times, Section C, p. 2, col. 1, Late Edition – Final.	4/27/95
	"Software spells out the ABC's of SAT" By R. Calem. The Tampa Tribune, Baylife, p. 1, Final edition	5/3/95
	"CD-ROM helps prepare for SAT" By J. Gaw. The Plain Dealer, Next, p. 1E, Final	5/8/95
	"Kaplan preps for CD-ROM release" HFN, Vol. 69, No. 32, p. 67	8/7/95
	"Turning SATs into a kind of video game." By M. Putzel. The Boston Globe, Economy, p. 91, City Edition	9/15/95
	"Training the workers who operate the trains." By Butt et al. American Society for Training & Development, Inc., Technical & Skills training, vol. 6, No. 7, p. 14-19	10/95
	"Computer tutors to help you ace the SAT." By Dunkin et al. Business Week, Personal business, education, no. 3444, p. 142	10/2/95
	"New CD-ROMs aimed at reducing SAT jitters" By W. Honan. The Houston Chronicle, section a, p. 6, 2 Star Edition	10/8/95
	"Test-preparation software scores big." By V. Marion. Los Angeles Times, Business section, part D, page 7, financial desk, Orange County Edition	11/1/95
	"Multiple choice: Virtual tutors ratedcoaching options range from staid help to high-tech glitz", Gannett Company, Inc., USA Today, March 21, 1996, Final Edition, Life Section, p. 6D.	3/21/96
	Computer-assisted instruction at Stanford, 1966-68 By Suppes et al, Academic Press, pp. v-ix and 1-533.	1972

	Control Data Plato, System Overview by Control Data Corporation	1976
	Control Data Plato CMI Author's Guide By Control Data Corporation	1978
	Control Data Plato, Author Language Reference Manual By Control Data Corporation	April 1978
	CDC Philosophy By Control Data Corporation	1978
	A computerized model for placement and diagnostic testing in college remedial mathematics, A Florida Atlantic University Dissertation by Iraj Hirmanpour, pp. i-vii and 1-163.	Dec 1980
	Industry Education Computer Based Training Strategy By Arthur Andersen & Co.	Feb 1988
	Teacher's Handbook for Math Concepts and Skills Computer Curriculum Corporation By Agulnick et al., pp. 1-126.	1991
	CBT Systems By The Training Resource, pp. i-xxiii and 1-51.	1992
	CBT Systems By The Training Resource, pp. i-xxxiv and 1-101.	1993
	SuccessMaker Reports Guide by Computer Curriculum Corporation, pp. i-v and 1-150.	1993
	SuccessMaker Reports Quick Reference Guide By Computer Curriculum Corporation, pp. i-iii and 1-18.	1993
	SuccessMaker Instructional Management by Computer Curriculum Corporation, pp. 1-94.	1993
	SuccessMaker Math Concepts and Skills by Computer Curriculum Corporation, pp. i-iv and 1-167.	1993
	User's Guide for Success Maker by Computer Curriculum Corporation, pp. 3-10.	1993
	How to use the CBT Tracs System Administrator's Guide by CBT Systems Ltd, pp. 1-29.	1994
	CBT Wintracs by CBT Systems Ltd, pp. 1-47.	1994
	Full curriculum software personal selection help by EISI Software Institute, pp. 495, 500-503, 511, 517-527, 575-581, 583-585.	Jan 1994
	CBT Systems by The Training Resource, pp. 3-256.	Spring 1995
	The development of a health careers database computer program, A University of Houston Dissertation By Ava Miller	May 1995
	Knowledge Management Case Study, Knowledge Management at Microsoft, 1997 By Thomas Davenport	1996
	Wintracs by CBT Systems Ltd, pp. 65-97.	Sept 1997
	Teltech: The business of knowledge management case study By Thomas Davenport, pp. 1-9. <a href="http://www.bus.utexas.edu/kman/telcase.htm">www.bus.utexas.edu/kman/telcase.htm</a>	4-1996
	SkillView: Engineering a More Productive WorkForce by SkillView Technologies	Before 2003
	Education Uses of the Plato Computer System, Science, Vol. 192, No. 4237 by Smith et al.	April 23, 1976
	The Design and Implementation of a Dynamically Tailored Examination, SIGSCE Bulletin, vol. 9, no. 3, pages 59-62 by Lawrence Whitlock	August 1977
	Computer assisted diagnostic prescriptive program in reading and mathematics, by Robertson et al., US Dept of Education, Washington, DC	Jan. 1986
	The new component design theory: instructional design for courseware authoring, by D. Merrill, Instructional Science 16: 19-34	1987
	Teacher's Handbook for English as a Second Language by Computer Curriculum Corporation	Feb. 1985
	The CCC Instructional System	July 1990
	CCC Graphics Server, Preliminary Information for Proctors	July 17, 1987
	Important Information on Speech System Use for Release 12 Courses, by Barbara Tingey	March 22, 1988
	CCC Graphics Server, Product Description	May 1987
	Teacher's Handbook for Initial Reading by Computer Curriculum Corporation	July 1988
	Interoffice Memorandum, MAC Platform News, by D. Salvadori	March 19, 1991

	Marketing Reference Manual	
	An Overview of the CCC Instructional System on the IBM PS/2, Computer Curriculum Corporation	Jan 1991
	Marketing Reference Manual, System Planning	
	Marketing Reference Manual, Questions and Answers	
	William C. Norris: Portrait of a Maverick, Ballinger Publishing Company by Worthy et al.	1987
	The Well-Managed Classroom, by Bobby Goodson, Teaching and Computers	Nov/Dec 1988
	EPIE Report Summary for Computer Curriculum Corporation	April 1990
	Introducing the newest member of CCC's winning team, by Computer Curriculum Corporation	
	Intelligent Tutoring Systems—The Current State of the Art, by Riichiro Mizoguchi, The Transactions of the IEICE, Vol. E 73, No. 3	March 1990
	The Intelligent Design of Computer-assisted instruction, Chapter 9, by Venezky et al., Longman	1991
	Computer Managed Instruction at Arthur Andersen & Company: A Status Report, by Dennis et al.	March 1992
	2.0 CMI Overview, CMI Guidelines, by AICC	October 25, 1993
	Performance Support Systems: Integrating AI, Hypermedia, and CBT to enhance user performance, by Karen McGraw, JI. Of Artificial Intelligence in Education 5(1), 3-26	1994
	The use of pre-test and post-test in call: A case study, by Blin et al., Computers Educ. Vol. 23, No. 1/2 , pp. 143-150	1994
	CMI Guidelines for Interoperability by AICC	Jan. 26, 1996
	CBT Campus Tour Preview by CBT System	1997
	Registrar, Silton-Bookman Systems Inc.	1997
	Silton-Bookan Systems, Registrar	Sep 24, 1997
	Web-Based Training Cookbook, Wiley Computer Publishing by Brandon Hall	1997
	Training Multimedia, Vol. 3, #1, How to Manage Benchmark Multimedia Based Training	1997
	DigitalThink: A classroom on the Web, by Paul Williams, New Media	May 5, 1997
	Netting on Education, by Laura Castaneda, San Francisco Chronicle, Business	July 24, 1997
	Knowledge Inc., Vol. 2, No. 8.	August 1997
	Computer Managed Instruction, AICC Guidelines and Recommendations, by AICC	Oct. 9, 1997
	Hands On: Java Tutorials, Insider Technology Training, by Ned Snell	Nov 1997
	Implementation Strategies for Web-based training and performance support, by International Quality & Productivity Center	Nov 17-19, 1997
	CMI Guidelines for Interoperability by AICC	Feb 1998
	Keeping Track, Inside Technology Training, by Sarah Auerbach	July/August 1998
	Plato Rising: Online learning for Atarians, <a href="http://www.atarimagazines.com/v3n3/platorising.html">www.atarimagazines.com/v3n3/platorising.html</a> , by Small et al.	2003
EXAMINER	DATE CONSIDERED	